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To: Lytle Construction
Attn: Alan Rouse
1100 SE Hamblen Rd.
Lee's Summit, MO. 64081

Date: 5/15/2023
RCC#: 22-719

Project Name: Lee's Summit Medical Center
ICU Expansion
2100 SE Blue Parkway
Lee's Summit, MO. 64081

Subcontractor/Supplier MTA

Submittal No.: 27

ITEM NO.	SPEC. SECTION/ DRAWING NO.	DESCRIPTION OF ITEM SUBMITTED
		Med Gas Testing Report

REVIEWS:

REVIEWED FOR GENERAL ACCEPTANCE ONLY		
BY COMPLETING THIS FORM, THE UNDERSIGNED CONTRACTOR CERTIFIES THAT THE MATERIAL COMPLIES WITH ALL SPECIFICATIONS OF SUBJECT CONTRACT.		
<u>27</u>	<u>5/15/2023</u>	<u>Josh Murphy, Project Manager</u>
SUBMITTAL NO.	DATE	RAND CONSTRUCTION COMPANY

Medical Technology Associates Inc.

Certification



FACILITY:	Lee's Summit Hospital	CITY & STATE	Lee's Summit, Missouri
CUSTOMER:	Rand Construction	CITY & STATE	Kansas City, Missouri
PO#:	On file	JOB #:	70946
DATE:	5/11/2023	TECH:	Clark Zeit

Affidavit	70946	Control #	NA
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Medical Technology Associates
6651 102nd Ave N, Pinellas Park, FL 33782
Tel. (727) 535-3007, Fax (727) 548-8622

All In One Certification Form - V2022-5.14



Acknowledgement of Services

Certification
Affidavit #: 70946
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Medical Technology Assocations, Inc.

FACILITY:	Lee's Summit Hospital	CITY & STATE	Lee's Summit, Missouri
CUSTOMER:	Rand Construction	CITY & STATE	Kansas City, Missouri
PO#:	On file	JOB #:	70946
DATE:	5/11/2023	TECH:	Clark Zeit

CHECK APPROPRIATE BOX(ES)

MEDICAL GAS PIPING SYSTEMS (A - G only)	OXY	AIR	VAC	N2O	N2	CO2	WAGD	Other
A. TOTAL SYSTEM EVALUATION	---	---	---	---	---	---	---	---
B. PATIENT OUTLET TESTING	✓	✓	✓	---	---	---	---	---
C. CONSTRUCTION CERTIFICATION	✓	✓	✓	---	---	---	---	---
D. CONTAMINANT TESTING	✓	✓	---	---	---	---	---	---
E. PARTICULATE MATTER TESTING	✓	✓	---	---	---	---	---	---
F. LEAK DETECTION	✓	✓	✓	---	---	---	---	---
G. OTHER	---	---	---	---	---	---	---	---

Comments:

5/11/2023	Rick Prey	N.A.	Rand Construction
Date	Service Acknowledged By (Print)	Signature of Responsible Facility Authority	Company



Medical Gas & Vacuum Zone Valve & Alarm Panel

Certification
Affidavit #: 70946
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Medical Technology Associates, Inc.

FACILITY:	Lee's Summit Hospital	CITY & STATE	Lee's Summit, Missouri
CUSTOMER:	Rand Construction	CITY & STATE	Kansas City, Missouri
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DATE:	5/11/2023	TECH:	Clark Zeit

P = Pass; F = Fail, SC = See Comment

CROSS CONNECTION TEST (Check methodology)

Individual Pressurization (5.1.12.4.3.1) ☒

Pressure Differential (5.1.12.4.3.2) ☐

ZONE VALVE BOX	Location: Corridor		Area Served: ICU 7-14			AREA ALARM PANEL	Location: Corridor		Area Served: ICU 7-14				
	Gas / Vacuum	Proper Labeling					Standing Pressure Test	Pressure Gauges					Cross Connection Test
Oxy	P	P	P	P	P	P	53	40	60	P	NA	P	P
MA	P	P	P	P	P	P	50	40	60	P	NA	P	P
Vac	P	P	P	P	P	P	24	12	NA	P	NA	P	P

Comments:



Field Affidavit Inspection / Testing Services Medical Gas & Vacuum Systems

Certification
Affidavit #: 70946
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Control Number: NA

Medical Technology Associates, Inc.

FACILITY:	Lee's Summit Hospital	CITY & STATE	Lee's Summit, Missouri
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PO#:	On file	JOB #:	70946
DATE:	5/11/2023	TECH:	Clark Zeit

I, Clark Zeit, as a current appointed representative of Medical Technology Associates as of (date) 5/11/2023 have conducted tests of the Medical Gas & Vacuum System in accordance with NFPA99 2021 and attest to the following:
Area Inspected: ICU Expansion

Check appropriate box(es)

<input checked="" type="checkbox"/>	←Category 1	<input type="checkbox"/>	←Category 2	<input type="checkbox"/>	←Category 3	<input type="checkbox"/>	←NFPA99 2012
<input type="checkbox"/>	←NFPA99 2015	<input type="checkbox"/>	←NFPA99 2018	<input checked="" type="checkbox"/>	←NFPA99 2021	<input type="checkbox"/>	←Other

P = Pass, F = Fail, NA = Not Applicable

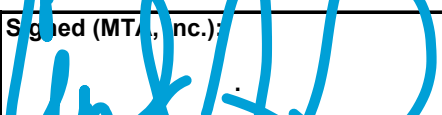
P	Verifier is ASSE 6030 qualified per NFPA99 2021 5.1.12.4.1.3
NA	Verifier is ASSE 6035 qualified per NFPA99 2021 5.1.12.4.1.4
	Name: Rick Prey Certificate #: On file
P	Installer Performed Tests Per NFPA99 2021 Code 5.1.12.2 have been completed.
P	System Inspection Per NFPA99 2021 5.1.12.3 has been completed.
P	Verifier cross connection test was successfully completed.
P	Pipeline system tested was purged of the test gas Nitrogen (NF).
P	Verifiers 10 minute standing pressure test was successfully completed.
P	The concentration of the gas delivered at each outlet was tested and is within specified standards.
P	All tested outlets and inlets are labeled and functioning properly for flow and pressures.
P	All tested alarm panels were located and functioning properly.
P	All tested valves and zone valve boxes were located properly with tags and labels.
NA	All tested central supply systems were found to be properly located and functioning for their intended use.
NA	All tested air compressor and vacuum pumps were inspected and are installed correctly.

NA	If this box is "X'ed" review all notes on the MTA CODE COMPLIANCE WORK SHEET before patient use.
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The Contractor and / or Facility are responsible for the identification of all the equipment to be certified.
Any equipment not listed on the attached worksheets is the responsibility of the Contractor and / or Facility.

Hold Harmless Clause:

The above certification applies to the condition of the detailed, itemized list of equipment as of the date noted.
Medical Technology Associates, Inc will be held harmless from any liability caused by any modification of the piping system (including but not limited to inlets / outlets, alarm panels, zone valve boxes, manifolds or central supply systems) at a later date.

Signed (MTA, Inc.): 	Signed (Responsible Facility Authority): N.A.	Signed (Contractor): N.A.
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Medical Gas & Vacuum Outlets

Certification
Affidavit #: 70946
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Medical Technology Associates, Inc.

FACILITY:	Lee's Summit Hospital	CITY & STATE	Lee's Summit, Missouri
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AREA:

5.1.12.4.10.2 (Gas) – All medical gas outlets with a gauge pressure of 345 kPa (50 psig), including but not limited to, oxygen, nitrous oxide, medical air, and carbon dioxide, shall deliver 100 SLPM (3.5 SCFM) with a pressure drop of no more than 35 kPa (5 psig) and static pressure of 345 - 380 kPa (50 - 55 psig). **NOTE ALSO: 5.1.12.4.10.3** All support gases (nitrogen or instrument air) outlets shall deliver 140 SLPM (5.0 SCFM) with a pressure drop of not more than 35 kPa (5 psig) gauge and static pressure of 1100 to 1275 kPa (160 to 185 psi) gauge. 5.1.12.3.11 Gas Concentrations – > 99% oxygen / > 99% nitrous oxide / less than 1% oxygen for nitrogen / 19.5% to 23.5% oxygen for medical air / > 99% carbon dioxide. **5.1.12.4.10.4 (Vacuum)** – All medical / surgical vacuum inlets shall draw 85 N1/min (3.0 SCFM) without reducing the vacuum pressure below 300 mm (12 in.) gauge InHgV at any adjacent station inlet.

Medical Gas Concentration:	O2 % 99.8	Med Air (%O2) 21.1	N2O % NA	N2 (%O2) NA	CO2 % NA	Other:	
Medical Gas / Vacuum Pressures:	O2 (PSIG) 53	Med Air (PSIG) 50	N2O (PSIG) NA	N2 (PSIG) NA	CO2 (PSIG) NA	Vac (" Hg) 24	WAGD (" Hg) NA
Safety Latching Type:	Latch Key: NA	Pin Index: ✓	Geometric: NA	DISS: NA	OTHER: NA		
Particulate Test:	O2 ND	Med Air ND	N2O NA	N2 NA	CO2 NA	Other:	

NA = Not Applicable / ND = None Detected / P = Passed / F = Failed / SC = See Comment

**** Station Abbreviations: **W = Wall **D = Hose Drop **P = Pedestal **C = Arm, Boom, Column or Pendant**

Test #	Location	** Station W,D,P,C	Type of Gas	Gas Purge Test	Operational Pressure Test (Gases)			Adjacent Inlet Test (Vacuum)		Pass / Fail
					Flow 3.5 (5.0 N2) SCFM	Drop (PSIG)	Trans Flow Test (SCFM)	3.0 (SCFM)	Pressure >12" Hg	
3	ICU 7	W	Oxy	NA	NA	2	15	NA	NA	P
2	ICU 7	W	MA	NA	NA	2	15	NA	NA	P
4	ICU 7	W	Vac	NA	NA	NA	NA	>3.0	>12	P
3	ICU 8	W	Oxy	NA	NA	2	15	NA	NA	P
2	ICU 8	W	MA	NA	NA	2	15	NA	NA	P
4	ICU 8	W	Vac	NA	NA	NA	NA	>3.0	>12	P
3	ICU 9	W	Oxy	NA	NA	2	15	NA	NA	P
2	ICU 9	W	MA	NA	NA	2	15	NA	NA	P
4	ICU 9	W	Vac	NA	NA	NA	NA	>3.0	>12	P
3	ICU 10	W	Oxy	NA	NA	2	15	NA	NA	P
2	ICU 10	W	MA	NA	NA	2	15	NA	NA	P
4	ICU 10	W	Vac	NA	NA	NA	NA	>3.0	>12	P

Additional Outlets may be continued on following sheets.

Comments:

